

Amendments to the Claims

Kindly cancel claims 8, 19 and 27, amend claims 1, 2, 3, 7, 9, 10, 14, 16, 17, 20, 22, 23, 24, 25, 28 and 30, and add new claims 31-33, as set forth below. In compliance with the Revised Amendment Format published in the Official Gazette on February 25, 2003, a complete listing of claims is provided herein. The changes in the amended claims are shown by strikethrough (for deleted matter) and underlining (for added matter).

1. (Currently Amended) A method of grouping storage media, said method comprising:

obtaining parameter information for one or more parameters associated with a plurality of storage media; and

~~grouping at least a portion of storage media of the plurality of storage media into one or more groups of storage media based on at least one parameter of the one or more parameters, wherein said at least one parameter is associated with at least one of performance of a storage medium and reliability of a storage medium~~
choosing at least one parameter of the one or more parameters as desired criteria to be used in grouping storage media, said at least one parameter being associated with at least one of performance of a storage medium and reliability of a storage medium; and

selecting one or more storage medium of the plurality of storage media to be included in a storage media group, said one or more selected storage medium having the desired criteria.

2. (Currently Amended) The method of claim 1, wherein the ~~one or more groups~~ comprise one or more arrays to be used in creating at least one logical array of media storage media group comprises an array to be used in creating a logical array of media.

3. (Currently Amended) The method of claim 1, ~~A method of grouping storage media, said method comprising:~~

~~obtaining parameter information for one or more parameters associated with a plurality of storage media; and~~

~~grouping at least a portion of storage media of the plurality of storage media into one or more groups of storage media based on at least one parameter of the one or more parameters, wherein the one or more parameters comprise at least one of:~~

at least one parameter associated with residence time of a storage medium head as a function of storage medium cylinder;

at least one parameter associated with one or more servo errors of a storage medium;

at least one parameter associated with one or more environmental conditions of a storage medium; and

at least one parameter associated with a state of one or more internal components of a storage medium.

4. (Previously Canceled)

5. (Original) The method of claim 1, wherein the one or more parameters comprise at least one parameter associated with one or more functions of a storage medium.

6. (Previously Canceled)

7. (Currently Amended) The method of claim 1, wherein said ~~at least one parameter comprises~~choosing further comprises choosing a parameter of at least one of manufacture information and date of manufacture.

8. (Canceled)

9. (Currently Amended) The method of claim 1, further comprising reconfiguring ~~at least one group of the storage media of the one or more groups of storage media~~group.

10. (Currently Amended) The method of claim 9, further comprising periodically obtaining parameter information for one or more parameters associated with the at least ~~one~~storage media group to be reconfigured, and wherein the reconfiguring is based on the periodically obtained parameter information.

11. (Original) The method of claim 1, wherein the plurality of storage media comprise a plurality of storage devices.

12. (Original) The method of claim 1, wherein the plurality of storage media comprise a plurality of surfaces of a plurality of storage devices.

13. (Original) The method of claim 12, further comprising:

determining that at least one parameter of the one or more parameters is within a specified range; and

eliminating use of a surface of the plurality of surfaces, in response to the determining.

14. (Currently Amended) The method of claim ~~13~~33, further comprising:

selecting a group of storage media of the one or more groups that satisfies a chosen criterion; and

writing data having a selected attribute to the storage media of the selected group.

15. (Original) The method of claim 14, wherein the chosen criteria is performance and the selected attribute is access frequency of a certain value.

16. (Currently Amended) A system of grouping storage media, said system comprising:

means for obtaining parameter information for one or more parameters associated with a plurality of storage media;-and

~~means for grouping at least a portion of storage media of the plurality of storage media into one or more groups of storage media based on at least one parameter of the one or more parameters, wherein said at least one parameter is associated with at least one of performance of a storage medium and reliability of a storage medium~~means for choosing at least one parameter of the one or more parameters as desired criteria to be used in grouping storage media, said at least one parameter being associated with at least one of performance of a storage medium and reliability of a storage medium; and

means for selecting one or more storage medium of the plurality of storage media to be included in a storage media group, said one or more selected storage medium having the desired criteria.

17. (Currently Amended) The system of claim 16, wherein the ~~one or more groups comprise one or more arrays to be used in creating at least one logical array of media~~storage media group comprises an array to be used in creating a logical array of media.

18. (Original) The system of claim 16, wherein the one or more parameters comprise at least one parameter associated with one or more of the following:

residence time of a storage medium head as a function of storage medium cylinder;

one or more servo errors of a storage medium;

one or more functions of a storage medium;

one or more environmental conditions of a storage medium; and

a state of one or more internal components of a storage medium.

19. (Canceled)

20. (Currently Amended) The system of claim 16, further comprising means for reconfiguring ~~at least one group of the~~ storage media ~~of the one or more groups of storage media~~group.

21. (Original) The system of claim 16, wherein the plurality of storage media comprise a plurality of surfaces of a plurality of storage devices, and wherein the system further comprises:

means for determining that at least one parameter of the one or more parameters is within a specified range; and

means for eliminating use of a surface of the plurality of surfaces, in response to the determining.

22. (Currently Amended) The system of claim 16, wherein one or more storage media groups is provided, and the system further comprising~~comprises~~:

means for selecting a storage media group ~~of storage media~~ of the one or more storage media groups that satisfies a chosen criterion; and

means for writing data having a selected attribute to the storage media of the selected storage media group.

23. (Currently Amended) A system of grouping storage media, said system comprising:

parameter information for one or more parameters associated with a plurality of storage media; and

~~a component to group at least a portion of storage media of the plurality of storage media into one or more groups of storage media based on at least one parameter of the one or more parameters, wherein said at least one parameter is associated with at least one of performance of a storage medium and reliability of a storage medium~~at least one parameter of the one or more parameters chosen as desired criteria to be used in grouping storage media, said at least one parameter

being associated with at least one of performance of a storage medium and reliability of a storage medium; and

a component to select one or more storage medium of the plurality of storage media to be included in a storage media group, said one or more selected storage medium having the desired criteria.

24. (Currently Amended) An article of manufacture comprising:

at least one computer usable medium having computer readable program code logic to manage grouping of storage media, the computer readable program code logic comprising:

obtain logic to obtain parameter information for one or more parameters associated with a plurality of storage media; and

~~group logic to group at least a portion of storage media of the plurality of storage media into one or more groups of storage media based on at least one parameter of the one or more parameters, wherein said at least one parameter is associated with at least one of performance of a storage medium and reliability of a storage medium~~
choose logic to choose at least one parameter of the one or more parameters as desired criteria to be used in grouping storage media, said at least one parameter being associated with at least one of performance of a storage medium and reliability of a storage medium; and

select logic to select one or more storage medium of the plurality of storage media to be included in a storage media group, said one or more selected storage medium having the desired criteria.

25. (Currently Amended) The article of manufacture of claim 24, wherein ~~the one or more groups comprise one or more arrays to be used in creating at least one logical array of media~~
storage media group comprises an array to be used in creating a logical array of media.

26. (Original) The article of manufacture of claim 24, wherein the one or more parameters comprise at least one parameter associated with one or more of the following:

residence time of a storage medium head as a function of storage medium cylinder;

one or more servo errors of a storage medium;

one or more functions of a storage medium;

one or more environmental conditions of a storage medium; and

a state of one or more internal components of a storage medium.

27. (Canceled)

28. (Currently Amended) The article of manufacture of claim 24, further comprising reconfigure logic to reconfigure ~~at least one group of the~~ storage media of the one or more groups of storage mediagroup.

29. (Original) The article of manufacture of claim 24, wherein the plurality of storage media comprise a plurality of surfaces of a plurality of storage devices, and further comprising:

determine logic to determine that at least one parameter of the one or more parameters is within a specified range; and

eliminate logic to eliminate use of a surface of the plurality of surfaces, in response to the determining.

30. (Currently Amended) The article of manufacture of claim 24, wherein one or more storage media groups is provided, and further comprising:

select logic to select a storage media group ~~of storage media~~ of the one or more storage media groups that satisfies a chosen criterion; and

write logic to write data having a selected attribute to the storage media of the selected storage media group.

31. (New) The method of claim 1, wherein said performance of the storage medium comprises an amount of time to access data of the storage medium.

32. (New) The method of claim 1, wherein the storage media group excludes storage media not satisfying the desired criteria.

33. (New) A method of grouping storage media, said method comprising:

obtaining parameter information for one or more parameters associated with a plurality of storage media; and

grouping at least a portion of storage media of the plurality of storage media into one or more groups of storage media based on at least one parameter of the one or more parameters, wherein said at least one parameter is associated with performance of a storage medium, said performance comprising an amount of time to access data of the storage medium.